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Accreditation No: ML 014

Awarded to

Clinical Laboratories Dr. Ziauddin Hospital, North Campus Block-B, North Nazimabad, Karachi, Pakistan

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **24-06-2019** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO 15189:2012**.

The accreditation requires regular surveillance, and is valid until **23-06-2022**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

24/06/2019
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Director General

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Medical Laboratory.

Accreditation Scope of ABC Lab. PQR City, XYZ Country.

Permanent laboratory premises

Field of Medical Testing Laboratory:

Materials tested	Testing field (e.g. Chemical, Micro etc)	Types of test/ Properties measured	Reference to standardized method/ Internal method reference
BLOOD	CLINICAL CHEMISTRY	ANTI HBS	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		(AFP) ALPHA FETOPROTEIN	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		CA-125	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		CARBAMIZAPINE	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		CEA	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		CORTISOL	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		DIGOXIN	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		FSH	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		HBsAg	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		HIV Ag-Ab Combo	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		HOMOCYSTEINE	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		LH	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		PHENYTOIN	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		PROLACTIN	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		Total PSA	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		VANCOMYCIN	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		VALPROIC ACID	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
25-OH VIT D	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)		

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Materials tested	Testing field (e.g. Chemical, Micro etc)	Types of test/ Properties measured	Reference to standardized method/ Internal method reference
BLOOD	CLINICAL CHEMISTRY	hs Troponin-I	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		Total β-hCG	CHEMILUMINESCENCE (CMIA) (Abbott immunoassay)
		Anti-HBC	CHEMILUMINESCENCE Vitros Eci
		Anti-HCV	CHEMILUMINESCENCE Vitros Eci
		ACTH	CHEMILUMINESCENCE (CEIA) Immulate
		C-PEPTIDE	CHEMILUMINESCENCE (CEIA) Immulate
		D-DIMER	CHEMILUMINESCENCE (CEIA) Immulate
		ESTRADIOL	CHEMILUMINESCENCE (CEIA) Immulate
		TOTAL TESTOSTERONE	CHEMILUMINESCENCE (CEIA) Immulate
		GROWTH HORMONE (hGH)	CHEMILUMINESCENCE (CEIA) Immulate
		TOTAL IgE	CHEMILUMINESCENCE (CEIA) Immulate
		INSULIN	CHEMILUMINESCENCE (CEIA) Immulate
		PROGESTERONE	CHEMILUMINESCENCE (CEIA) Immulate
		PTH intact	CHEMILUMINESCENCE (CEIA) Immulate
		FOLIC ACID	CHEMILUMINESCENCE (CEIA) Immulate
		VITAMIN-B 12	CHEMILUMINESCENCE (CEIA) Immulate
		SODIUM	DIRECT ISE Easylyte
		POTASSIUM	DIRECT ISE Easylyte
		CHLORIDE	DIRECT ISE Easylyte
		CK-MB MASS	Electrochemiluminescence Cobas e-601
		Free T3	Electrochemiluminescence Cobas e-601
		Free T4	Electrochemiluminescence Cobas e-601
		T3	Electrochemiluminescence Cobas e-601
		T4	Electrochemiluminescence Cobas e-601
		TSH	Electrochemiluminescence Cobas e-601
		ALBUMIN	PHOTOMETRY Cobas c-501
		ALP	PHOTOMETRY Cobas c-501
		ALT	PHOTOMETRY Cobas c-501
AST	PHOTOMETRY Cobas c-501		

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Materials tested	Testing field (e.g. Chemical, Micro etc)	Types of test/ Properties measured	Reference to standardized method/ Internal method reference
BLOOD	CLINICAL CHEMISTRY	AMYLASE	PHOTOMETRY Cobas c-501
		BILIRUBIN TOTAL	PHOTOMETRY Cobas c-501
		BILIRUBIN DIRECT	PHOTOMETRY Cobas c-501
		CHOLESTEROL	PHOTOMETRY Cobas c-501
		CO2 TOTAL	PHOTOMETRY Cobas c-501
		CPK	PHOTOMETRY Cobas c-501
		CRP	PHOTOMETRY Cobas c-501
		CREATININE	PHOTOMETRY Cobas c-501
		FERRITIN	PHOTOMETRY Cobas c-501
		GGT	PHOTOMETRY Cobas c-501
		GLUCOSE	PHOTOMETRY Cobas c-501
		HDL	PHOTOMETRY Cobas c-501
		IRON	PHOTOMETRY Cobas c-501
		LACTIC ACID	PHOTOMETRY Cobas c-501
		LDH	PHOTOMETRY Cobas c-501
		LDL	PHOTOMETRY Cobas c-501
		LIPASE	PHOTOMETRY Cobas c-501
		MAGNESIUM	PHOTOMETRY Cobas c-501
		PHOSPHORUS	PHOTOMETRY Cobas c-501
		TOTAL CALCIUM	PHOTOMETRY Cobas c-501
		TOTAL PROTEIN	PHOTOMETRY Cobas c-501
		TRIGLYCERIDES	PHOTOMETRY Cobas c-501
		UIBC	PHOTOMETRY Cobas c-501
		UREA	PHOTOMETRY Cobas c-501
		URIC ACID	PHOTOMETRY Cobas c-501
		AMMONIA	PHOTOMETRY Cobas c-501
GLYCATED HB (HbA1c)	PHOTOMETRY Cobas c-311		
IgA	PHOTOMETRY Cobas c-501		
IgG	PHOTOMETRY Cobas c-501		
IgM	PHOTOMETRY Cobas c-501		
OSMOLALRITY	Osmomat 3000		
Protein Electrophoresis	Helena		
BLOOD	HEMATOLOGY	Hemoglobin (Hb)	Non-cyanide hemoglobin analysis method by Spectrophometry Backman Coulter DxH 800 hematology Analyser
BLOOD		Red blood cell count (RBC count)	Impedance cell counting Coulter Backman
BLOOD		Total Leucocyte count(TLC count)	Calculated
BLOOD		Platelet count	Calculated
BLOOD		Hematocrit (HCT)	Calculated

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Materials tested	Testing field (e.g. Chemical, Micro etc)	Types of test/ Properties measured	Reference to standardized method/ Internal method reference
BLOOD	HEMATOLOGY	Mean Corpuscular Volume(MCV)	Derived from RBC histogram
BLOOD		Mean Corpuscular Hemoglobin(MCH)	Calculated
BLOOD		Mean Corpuscular Hemoglobin Concentration(MCHC)	Calculated
BLOOD		Red Cell Distribution width (RDW)	Derived from RBC histogram
BLOOD		Differential Leucocyte Count	VCSn Technology
BLOOD		Neutrophil	VCSn Technology
BLOOD		Lymphocyte	VCSn Technology
BLOOD		Monocyte	VCSn Technology
BLOOD		Eosinophil	VCSn Technology
BLOOD		Basophil	VCSn Technology
BLOOD		Nucleated RBCs	VCSn Technology
BLOOD		Absolute Neutrophil Count	Calculated
BLOOD		Absolute Lymphocyte Count	Calculated
BLOOD		Absolute Monocyte Count	Calculated
BLOOD		Absolute Eosinophilic count	Calculated
BLOOD		Absolute Basophilic count	Calculated
BLOOD		Morphology	Microscopy
BLOOD		Erythrocyte Sedimentation Rate(ESR)	Westergren Method using Optical detection(MICROsed- system)
BLOOD		Reticulocyte Count	Manual Method using Supravital staining of slides followed by Microscopic counting
BLOOD		Sickling Test	N/A
BLOOD		Peripheral Smear Morphology	Slide staining and Microscopy
BLOOD		Malarial Parasite	Slide staining and Microscopy
BLOOD		BLOOD BANK	Prothrombin time(PT)
BLOOD	Activated Partial Thromboplastin time(APTT)		Optical clot detection by light absorbance Sysmex CA 500 coagulation analyser
BLOOD	Fibrinogen level		Optical clot detection by light absorbance Sysmex CA 500 coagulation analyser
BLOOD	Blood Group		antigen-antibody reaction detection by red cell agglutination in test tube
BLOOD	Red cell Alloantibody Screening		antigen-antibody reaction detection by red cell agglutination in test tube
BLOOD	Cross Match		antigen-antibody reaction detection by red cell agglutination in test tube

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Materials tested	Testing field (e.g. Chemical, Micro etc)	Types of test/ Properties measured	Reference to standardized method/ Internal method reference
BLOOD	BLOOD BANK	Direct coomb's test	antigen-antibody reaction detection by red cell agglutination in test tube
BLOOD		Red cell antigen phenotyping	antigen-antibody reaction detection by red cell agglutination in test tube
BLOOD		Red cell alloantibody Titre	antigen-antibody reaction detection by red cell agglutination in test tube
CSF D/R	HEMATOLOGY	RBC Count	Manual Counts using Neubaur Chamber
		WBC Count	Manual Counts using Neubaur Chamber
		Differential Leucocyte Count	Microscopy
		Neutrophil	Microscopy
		Lymphocyte	Microscopy
		Monocyte	Microscopy
		Eosinophil	Microscopy
		Basophil	Microscopy
		Abnormal cell	Microscopy
		Morphology	Microscopy
Pleural and Pericardial Fluid D/R	HEMATOLOGY	RBC Count	Manual Counts
		WBC Count	Manual Counts
		Differential Leucocyte Count	Microscopy
		Neutrophil	Microscopy
		Lymphocyte	Microscopy
		Monocyte	Microscopy
		Eosinophil	Microscopy
		Basophil	Microscopy
		Abnormal cell	Microscopy
		Morphology	Microscopy
Peritoneal Fluid D/R	HEMATOLOGY	RBC Count	Manual Counts
		WBC Count	Manual Counts
		Differential Leucocyte Count	Microscopy
		Neutrophil	Microscopy
		Lymphocyte	Microscopy
		Monocyte	Microscopy
		Eosinophil	Microscopy
		Basophil	Microscopy
		Abnormal cell	Microscopy
		Morphology	Microscopy

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Materials tested	Testing field (e.g. Chemical, Micro etc)	Types of test/ Properties measured	Reference to standardized method/ Internal method reference
Synovial Fluid D/R	HEMATOLOGY	RBC Count	Manual Counts
		WBC Count	Manual Counts
		Differential Leucocyte Count	Microscopy
		Neutrophil	Microscopy
		Lymphocyte	Microscopy
		Monocyte	Microscopy
		Eosinophil	Microscopy
		Basophil	Microscopy
		Abnormal cell	Microscopy
		Morphology	Microscopy
		Crystals	
Bone marrow aspirate		HEMATOLOGY	Morphology
Tracheal Aspirates	MICROBIOLOGY	Routine Culture and sensitivity	Manual Culture Method
Bronchial Alveolar lavage		Routine Culture and sensitivity	Manual Culture Method
CVP TIP		Routine Culture and sensitivity	Manual Culture Method
Umbilical TIP		Routine Culture and sensitivity	Manual Culture Method
D/L TIP		Routine Culture and sensitivity	Manual Culture Method
Tracheal TIP		Routine Culture and sensitivity	Manual Culture Method
Sputum		Routine Culture and sensitivity	Manual Culture Method
Tissue		Routine Culture and sensitivity	Manual Culture Method
Liver abscess		Routine Culture and sensitivity	Manual Culture Method
Pus swab		Routine Culture and sensitivity	Manual Culture Method
Ear swab		Routine Culture and sensitivity	Manual Culture Method
Lymph nodes		Routine Culture and sensitivity	Manual Culture Method
Nasal Swab		Routine Culture and sensitivity	Manual Culture Method
Eye swab		Routine Culture and sensitivity	Manual Culture Method
High Vaginal swab		Routine Culture and sensitivity	Manual Culture Method
Urethral swab		Routine Culture and sensitivity	Manual Culture Method
IUCD		Routine Culture and sensitivity	Manual Culture Method

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Materials tested	Testing field (e.g. Chemical, Micro etc)	Types of test/ Properties measured	Reference to standardized method/ Internal method reference
Prostatic fluid	MICROBIOLOGY	Routine Culture and sensitivity	Manual Culture Method
Throat Swab		Routine Culture and sensitivity	Manual Culture Method
Sterile Body Fluids		Routine Culture and sensitivity	Manual Culture Method
Blood and Bone marrow		Blood and Bone marrow Culture & Sensitivity	BACTAC 9240 / Manual Culture Method
Urine		Urine Culture and Sensitivity (MSU)	Manual Culture Method
		Urinary Catheter sample	Manual Culture Method
Stool		Stool Culture and Sensitivity	Manual Culture Method
Sterile Body Fluids		AFB Smear	Microscopy Ziehl Neelson Staining
Pus		AFB Smear	Microscopy Ziehl Neelson Staining
Tracheal Aspirate		AFB Smear	Microscopy Ziehl Neelson Staining
Bronchial Alveolar lavage		AFB Smear	Microscopy Ziehl Neelson Staining
Sputum		AFB Smear	Microscopy Ziehl Neelson Staining
Tissue		AFB Smear	Microscopy Ziehl Neelson Staining
Liver abscess		AFB Smear	Microscopy Ziehl Neelson Staining
Lymph nodes		AFB Smear	Microscopy Ziehl Neelson Staining
Tracheal secretions in Tips		AFB Smear	Microscopy Ziehl Neelson Staining
CSF		India Ink	Microscopy
CSF		General Microscopy	Microscopy
Urine		General Microscopy	Microscopy
Blood		General Microscopy	Microscopy
Tissue		General Microscopy	Microscopy
Stool		General Microscopy	Microscopy
Stool		· Stool Detail Report	Microscopy
Stool		· Stool for Cyclospora and Cryptosporidium	Microscopy Modified Acid Fast Staining
BLOOD	MOLECULAR GENETICS	HCV Qualitative	Rotorgene Q PCR Real time PCR
Biopsy Sample	HISTOPATHOLOGY	H & E Staining	Processor, Microtome, Cytotome, Embedding, Microscope, Refrigerator, Incubator, Water Bath.

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